|  | Application No.  | Amulianutia                                    |                           |
|--|--|--|---------------------------|
| ·  | Application No. Applicant(s)   |  |                           |
| Notice of Allowability   | 09/927,547   | KUBO ET AL.                                    |                           |
|  | Examiner   | Art Unit                                       |                           |
|  | Tarifur R Chowdhury  | 2871   | l bu                      |
| The MAILING DATE of this communication appearable claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) of NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RICO of the Office or upon petition by the applicant. See 37 CFR 1.313   | OR REMAINS) CLOSED in to other appropriate commung<br>GHTS. This application is su | this application. If not includ                | led<br>Course <b>THIS</b> |
| 1. X This communication is responsive to <u>amendment filed on 05</u>  | <u>5/11/04</u> .   |  |                           |
| 2. ☑ The allowed claim(s) is/are <u>29,31,38-53 and 57</u> .   |  |  |                           |
| 3. $igotimes$ The drawings filed on <u>03 August 2001</u> are accepted by the I  | Examiner.  |  |                           |
| <ol> <li>Acknowledgment is made of a claim for foreign priority und</li> <li>a) ☐ All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents have</li> </ol>  |  | (f).   |                           |
| 2. ☑ Certified copies of the priority documents have l   |  | No. 00/220 702                                 |                           |
| Copies of the certified copies of the priority docu  |  |  | Han from the              |
| International Bureau (PCT Rule 17.2(a)).   | Milento nave been received i   | II this national stage applica                 | tion from the             |
| * Certified copies not received:   |  |  | •                         |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONME THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  | NT of this application.  |  |                           |
| <ol> <li>A SUBSTITUTE OATH OR DECLARATION must be submitted in the sub</li></ol> | ed. Note the attached EXAM reason(s) why the oath or d                             | IINER'S AMENDMENT or Neclaration is deficient. | OTICE OF                  |
| <ul> <li>CORRECTED DRAWINGS (as "replacement sheets") must</li> <li>(a) ☐ including changes required by the Notice of Draftsperso</li> <li>1) ☐ hereto or 2) ☐ to Paper No./Mail Date</li> <li>(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date</li> </ul>  | n's Patent Drawing Review (<br>Amendment / Comment or in                           | the Office action of                           |                           |
| Identifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in the   | 4(c)) should be written on the header according to 37 CFR                          | drawings in the front (not the 1.121(d).       | back) of                  |
| 7. DEPOSIT OF and/or INFORMATION about the deposi<br>attached Examiner's comment regarding REQUIREMENT FOR   | t of BIOLOGICAL MATER  | RIAL must be submitted. N                      | lote the                  |
|  |  |  |                           |
| Attachment(s)  | <u> </u>   |  |                           |
| . ☐ Notice of References Cited (PTO-892)   |  | mal Patent Application (PTC                    | )-152)                    |
| . ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  | 6. Interview Sum   | mary (PTO-413),                                |                           |
| <ul> <li>Information Disclosure Statements (PTO-1449 or PTO/SB/08)</li> <li>Paper No./Mail Date</li> </ul>   | 7. ⊠ Examiner's An   | ail Datenendment                               |                           |
| Examiner's Comment Regarding Requirement for Deposit   | 8. ⊠ Examiner's St   | atement of Reasons for Allo                    | wance                     |
| of Biological Material   | 9.  Other  |  |                           |
|  | •  |  |                           |
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Art Unit: 2871

## **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application is in condition for allowance except for the presence of non-elected claims 30, 32-36, 54-56 and 58-60 without traverse filed on 05/11/04.

Accordingly, claims 30, 32-36, 54-56 and 58-60 have been canceled.

Application/Control Number: 09/927,547

Art Unit: 2871

## Allowable Subject Matter

Page 3

- 2. Claims 29, 31, 38-53 and 57 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:
- 4. As to claim 29, the prior arts of record do not anticipate or render obvious to one skilled in the art a liquid crystal display device comprising various elements as claimed. more specifically each of the pixel areas having a reflection area defined by reflective electrode region and a transmission area defined by transmissive electrode region wherein a thickness (d1) of the liquid crystal layer in the transmissive electrode region a thickness (d2) of the liquid crystal layer in the reflective electrode region are defined by a relationship d1>d2, and wherein thickness d1 is substantially larger than thickness d2 so that electrooptical characteristics of the reflection area and the transmission area are approximately matched.
- As to claims 31 and 47, the prior arts of record do not anticipate or render obvious to one skilled in the art a liquid crystal display device comprising various elements as claimed, more specifically each of the pixel areas having a reflection area defined by reflective electrode region and a transmission area defined by transmissive electrode region wherein a thickness (d1) of the liquid crystal layer in the transmissive electrode region a thickness (d2) of the liquid crystal layer in the reflective electrode region are defined by a relationship d1>2\*d2.
- As to claim 38, the prior arts of record do not anticipate or render obvious to one skilled in the art a liquid crystal display device comprising various elements as claimed, more specifically each of the pixel areas having a reflection area defined by reflective

Page 4

Application/Control Number: 09/927,547

Art Unit: 2871

electrode region and a transmission area defined by transmissive electrode region wherein a thickness (d1) of the liquid crystal layer in the transmissive electrode region a thickness (d2) of the liquid crystal layer in the reflective electrode region are defined by a relationship d1>d2 and wherein thickness d1 is substantially larger than thickness d2.

- As to claim 53, the prior arts of record do not anticipate or render obvious to one skilled in the art a liquid crystal display device comprising various elements as claimed, more specifically each of the pixel areas having a reflection area defined by reflective electrode region and a transmission area defined by transmissive electrode region wherein a thickness (d1) of the liquid crystal layer in the transmissive electrode region a thickness (d2) of the liquid crystal layer in the reflective electrode region are defined by a relationship d1>d2 and wherein the reflective electrode at least partially overlaps the transmissive electrode.
- 8. As to claim 57, the prior arts of record do not anticipate or render obvious to one skilled in the art a liquid crystal display device comprising various elements as claimed, more specifically each of the pixel areas having a reflection area defined by reflective electrode region and a transmission area defined by transmission electrode region and wherein the reflection electrode region is higher than the transmission electrode region, forming a step on a surface of the first substrate, and thus a thickness of the liquid crystal layer in the reflection region is smaller than a thickness of the liquid crystal layer in the transmission region.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably Application/Control Number: 09/927,547

Art Unit: 2871

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tarifur R Chowdhury whose telephone number is (571) 272-2287. The examiner can normally be reached on M-Th (6:30-5:00) Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim can be reached on (571) 272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TRC May 19, 2004

> TARIFUR R. CHOWUHUNG PRIMARY EXAMINER

Page 5